

Reflective Cracking Testing Notes

Date: March 13, 2017

Project: Reflective Cracking Indoor Phase 5

Temperature:

Ambient temp: 25.2F

Interface temp: T1-N = 29.5F; T1-S = 30.2F

Working Hours: 7:00 AM – 3:30 PM

Sub-Contractor(s): N/A

Equipment: N/A

Reflective Cracking Testing Notes:

Cycle count: 1109

South test item observations:

- Outer vertical edge:
 - No visual changes were observed.
 - The outer vertical edge is fully cracked as shown in Figure 1.
 - The 5 vertical edge surface gauges are reading open.
- Joint surface area:
 - The last bit of surface area leading to the inner vertical edge appears to have cracked as shown in Figure 2.
 - The four joint area surface gauges are reading open.
- Inner vertical edge:
 - The upper half of the inner vertical edge is now fully cracked as shown in Figure 3.
 - The five vertical edge gauges are reading open as shown in Figure 4.

North test item observations:

- Outer vertical edge:
 - No visual changes were observed.
 - The outer vertical edge is cracked as shown in Figure 5.
 - The 3 vertical edge gauges are open.
- Joint surface area:
 - The last bit of surface area just right of SG2-N-3 appears to be fully cracked as shown in Figure 6.
 - Three of the four surface gauges are reading open. SG2-N-3 remains intact because the crack occurred below the SG2-N-3 gauge.
 - This crack deviation could have been the results of two cracks coming together from opposite directions. The bottom up crack from the inner vertical edge and the surface crack that propagated from the North opposite side meet together below SG2-N-3 as shown in Figure 8.
- Inner vertical edge:
 - No visual changes were observed.
 - The inner vertical edge is cracked as shown in Figure 7.
 - The three vertical edge gauges are open.

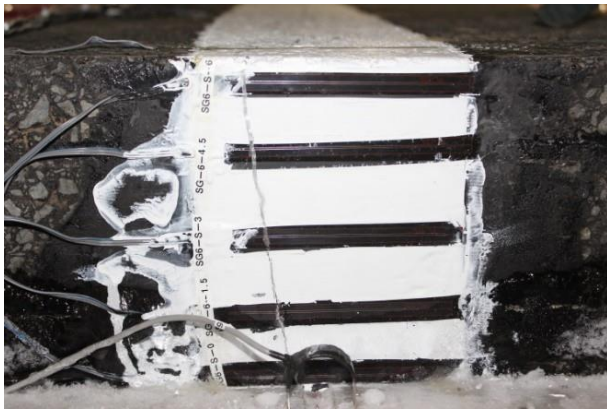


Figure 1. South outer vertical edge crack complete.

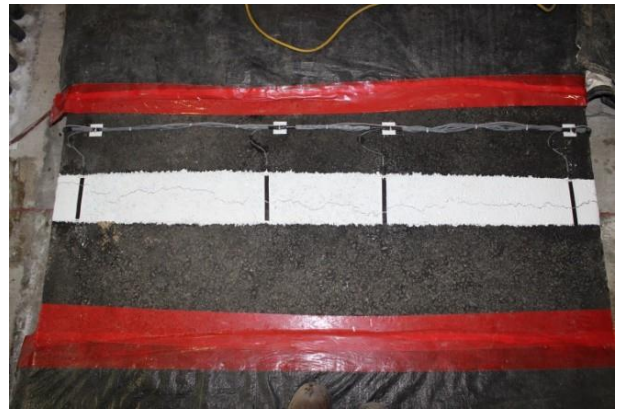


Figure 2. South surface crack complete.



Figure 3. South inner vertical edge crack complete.

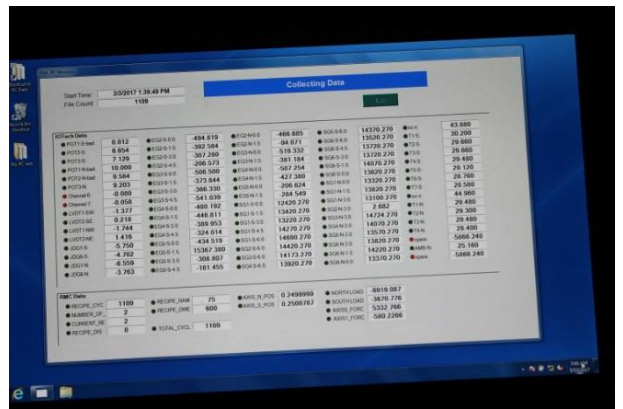


Figure 4. Data collection display showing open gauges.



Figure 5. North outer vertical edge crack complete.



Figure 6. North surface crack complete.



Figure 7. North inner vertical edge crack complete.

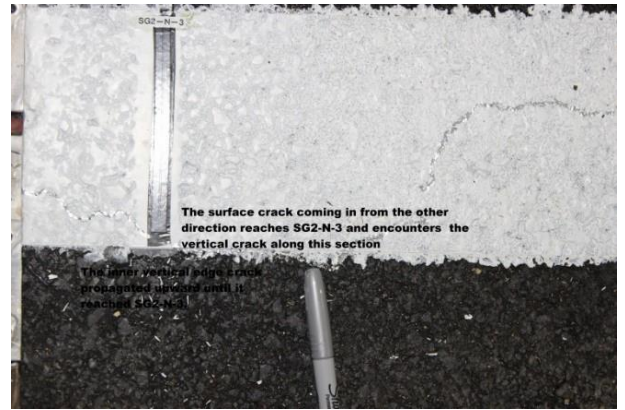


Figure 8. North surface area where the cracks meet.